



## DOCUMENTATION PAGE

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19. ABSTRACT (Continue on reverse if necessary and identify by block number)					
This POP report is for the M6 Electric Blasting Cap which is packaged 180/ Mil-B-2427 wood box. This report describes the results of testing conducted.					
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I. REPORT NUMBER: DOD POP HMTR/AYD 92-012

II. TITLE: Performance Oriented Packaging Report for Cap, Blasting,  
Electric: M6

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army  
ARDEC, SMCAR-AEP  
HQ, U.S. Army Armament, Munitions, and Chemical Command  
Picatinny Arsenal, NJ 07806-5000

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## 1. DATA SHEET

### CONTAINER

Type: Box  
UN Code: 4C1  
Nomenclature: Box, Ammunition, Packing: Wood, Nailed  
Specification Number: Type II, Class 2, Grade A, Mil-B-2427  
Drawing Number: N/A  
Material: Wood  
Gross Weight: 43  
Outside Dimensions: 17 1/4 x 15 7/8 x 11 13/16  
Inside Dimensions: 14 1/2 x 14 1/2 x 9 3/4

### PRODUCT

Name: Cap, Blasting, Electric: M6  
Drawing Number: 8830972  
Specification Number: Mil-C-45468  
United Nations Number: 0030  
Physical State: Solid  
Amount per Container: 180

## 2. BACKGROUND, TESTS, AND RESULTS

Reference the following document:

- a. 49CFR, October 1, 1991 Edition

Instead of testing the specific containers used for the M6 Blasting Cap, three wooden boxes built to the same specification but packed with a fiberboard box loaded with sand were tested. The corresponding weight and dimensions of the tested box are as follows:

Gross Weight: 120 pounds  
Outside Dimensions: 18 1/4 x 16 7/8 x 12 1/4  
Inside Dimensions: 15 3/8 x 15 3/8 x 9 3/4

This falls within the guidelines for analogy IAW Variation III of para. 178.601(g)(3) of Reference a.

A Stacking Test was conducted on one container with a weight of 1200 pounds for 72 hours in lieu of three containers for 24 hours. This weight exceeds the minimum requirement for a 10 foot stack height which is 1176 pounds.

A Loose Cargo Test was conducted on three containers for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicated no leakage or spillage of the contents from the containers following any of the tests conducted meeting the requirements of the 49CFR.